

**WHAT IS CLAIMED IS:**

- 1                   1.       A method for lubricating a container or a conveyor for  
2     transporting a container, the method comprising applying a curable composition to at  
3     least a portion of the container or at least a portion of a conveyor part that comes into  
4     contact with the container and non-thermally and non-radiatively curing the curable  
5     composition to form a cured, substantially water-repellent, lubricating coating on at  
6     least a portion of the container or conveyor part, the curable composition comprising  
7     at least one hydrophobic polymer and at least one wax.
- 1                   2.       The method of claim 1, wherein the cured coating comprises at  
2     least 10 weight percent wax based on the solid material content of the coating.
- 1                   3.       The method of claim 1, wherein the cured coating comprises  
2     greater than 50 weight percent wax based on the solid material content of the coating.
- 1                   4.       The method of claim 1, wherein the cured coating comprises at  
2     least 40 weight percent of the at least one hydrophobic polymer based on the solid  
3     material content of the coating.
- 1                   5.       The method of claim 1, wherein the at least one hydrophobic  
2     polymer comprises a polyurethane.
- 1                   6.       The method of claim 1, wherein the at least one hydrophobic  
2     polymer comprises an alkali soluble resin.
- 1                   7.       The method of claim 6, wherein the alkali soluble resin  
2     comprises acrylic monomers, styrenic monomers or a mixture of acrylic and styrenic  
3     monomers.
- 1                   8.       The method of claim 1, wherein the curable composition  
2     comprises a fluoropolymer.

1                   9.       The method of claim 1, wherein the curable composition  
2 comprises a mixture of two hydrophobic polymers, and further wherein one of the  
3 hydrophobic polymers is an alkali soluble resin.

1                   10.      The method of claim 1, wherein the wax comprises carnauba  
2 wax.

1                   11.      The method of claim 1, wherein the curable composition  
2 further comprises at least one additive selected from defoaming agents, anti-microbial  
3 agents, pigments, surfactants, wetting agents, and Zn oxide.

1                   12.      The method of claim 1, wherein the container is a plastic  
2 container.

1                   13.      The method of claim 1, wherein the container is a glass  
2 container.

1                   14.      The method of claim 1, wherein the container is a metal  
2 container.

1                   15.      The method of claim 1, wherein the container is a paper or  
2 ceramic container.

1                   16.      The method of claim 1 further comprising reapplying the  
2 curable composition to at least a portion of the conveyor part or the container to repair  
3 the lubricating coating.

1                   17.      The method of claim 1, wherein the curable composition is  
2 applied to at least a portion of the conveyor part that comes into contact with the  
3 container and the cured, substantially water-repellent, lubricating coating is formed on  
4 at least a portion of the conveyor part.

1                   18.      A method for lubricating a container or a conveyor for  
2 transporting a container, the method comprising applying a curable composition to at  
3 least a portion of the container or at least a portion of a conveyor part that comes into

4 contact with the container and non-thermally and non-radiatively curing the curable  
5 composition to form a cured, substantially water-repellent, lubricating coating on at  
6 least a portion of the container or the conveyor part, wherein the cured coating, as  
7 applied, has a coefficient of friction of less than 0.15, as measured by a short track  
8 conveyor test.

1 19. The method of claim 18, wherein the curable composition  
2 comprises at least one hydrophobic polymer and at least one wax.

1 20. The method of claim 18 wherein the cured lubricating coating,  
2 as applied, has a coefficient of friction of less than about 0.14 as measured by a short  
3 track conveyor test.

1 21. The method of claim 18, wherein the container is a plastic  
2 container.

1 22. The method of claim 18, wherein the container is a glass  
2 container.

1 23. The method of claim 18, wherein the container is a metal  
2 container.

1 24. The method of claim 18, wherein the container is a paper or  
2 ceramic container.

1 25. The method of claim 18 further comprising reapplying the  
2 curable composition to at least a portion of the conveyor part or the container to repair  
3 the lubricating coating.

1 26. The method of claim 18, wherein the curable composition is  
2 applied to at least a portion of the conveyor part that comes into contact with the  
3 container and the cured, substantially water-repellent, lubricating coating is formed on  
4 at least a portion of the conveyor part.

1                   27.     A method for lubricating a container or a conveyor for  
2     transporting a container, the method comprising applying a curable composition to at  
3     least a portion of the container or at least one part of the conveyor that comes into  
4     contact with the conveyor and curing the curable composition to form a cured  
5     lubricating coating on at least a portion of the container or the conveyor part, wherein  
6     the curable composition comprises an alkali soluble resin, at least one additional  
7     hydrophobic polymer and at least one wax.

1                   28.     The method of claim 27, wherein the wax makes up at least 5  
2     weight percent of the coating based on the solid material content of the coating.

1                   29.     The method of claim 27, wherein the wax makes up greater  
2     than 50 weight percent of the coating based on the solid material content of the  
3     coating.

1                   30.     The method of claim 27, and wherein the cured lubricating  
2     coating, as applied, has a coefficient of friction of less than 0.15, as measured by a  
3     short track conveyor test.

1                   31.     The method of claim 27, wherein the container is a plastic  
2     container.

1                   32.     The method of claim 27, wherein the container is a glass  
2     container.

1                   33.     The method of claim 27, wherein the container is a metal  
2     container.

1                   34.     The method of claim 27, wherein the container is a paper or  
2     ceramic container.

1                   35.     The method of claim 27 further comprising reapplying the  
2     curable composition to at least a portion of the conveyor part or the container to repair  
3     the lubricating coating.

1                   36.     The method of claim 27, wherein the curable composition is  
2     applied to at least a portion of the conveyor part that comes into contact with the  
3     container and the cured, lubricating coating is formed on at least a portion of the  
4     conveyor part.

1                   37.     The method of claim 27, wherein the alkali soluble resin has a  
2     number average molecular weight of no more than about 20,000 and the at least one  
3     additional hydrophobic polymer has a number average molecular weight of at least  
4     about 30,000.

1                   38.     The method of claim 37, wherein the ratio of the alkali soluble  
2     resin to the at least one additional hydrophobic polymer is from about 70:30 to 30:70.

1                   39.     A conveyor for transporting a container, at least a portion of a  
2     part of the conveyor coated with a cured lubricating coating formed by applying a  
3     curable composition to at least a portion of the conveyor part that comes into contact  
4     with the container and non-thermally and non-radiatively curing the curable  
5     composition to form a cured, substantially water-repellent, lubricating coating on at  
6     least a portion of the conveyor part, the curable composition comprising at least one  
7     hydrophobic polymer and at least one wax.

1                   40.     A container for transport on a conveyor, at least a portion of the  
2     container coated with a cured lubricating coating formed by applying a curable  
3     composition to at least a portion of the container that comes into contact with the  
4     conveyor and non-thermally and non-radiatively curing the curable composition to  
5     form a cured, substantially water-repellent, lubricating coating on at least a portion of  
6     the container, the curable composition comprising at least one hydrophobic polymer  
7     and at least one wax.

1                   41.     A conveyor for transporting a container, at least a portion of a  
2     part of the conveyor coated with a cured lubricating coating formed by applying a  
3     curable composition to at least a portion of the conveyor part that comes into contact  
4     with the container and non-thermally and non-radiatively curing the curable  
5     composition to form a cured, substantially water-repellent, lubricating coating on at

6 least a portion of the conveyor part, wherein the coating, as applied, has a coefficient  
7 of friction of less than 0.15, as measured by a short track conveyor test.

1           42.     A container for transport on a conveyor, at least a portion of the  
2 container coated with a cured lubricating coating formed by applying a curable  
3 composition to at least a portion of the container that comes into contact with the  
4 conveyor and non-thermally and non-radiatively curing the curable composition to  
5 form a cured, substantially water-repellent, lubricating coating on at least a portion of  
6 the container, wherein the coating, as applied, has a coefficient of friction of less than  
7 0.15, as measured by a short track conveyor test.

1           43.     A conveyor for transporting a container, at least a portion of a  
2 part of the conveyor coated with a cured lubricating coating formed by applying a  
3 curable composition to at least a portion of the conveyor part that comes into contact  
4 with the container and curing the curable composition to form a cured lubricating  
5 coating on at least a portion of the conveyor part, wherein the curable composition  
6 comprises an alkali soluble resin, at least one additional hydrophobic polymer and at  
7 least one wax.

1           44.     A container for transport on a conveyor, at least a portion of the  
2 container coated with a cured lubricating coating formed by applying a curable  
3 composition to at least a portion of the container that comes into contact with the  
4 conveyor and curing the curable composition to form a cured lubricating coating on at  
5 least a portion of the container, wherein the curable composition comprises an alkali  
6 soluble resin, at least one additional hydrophobic polymer and at least one wax.